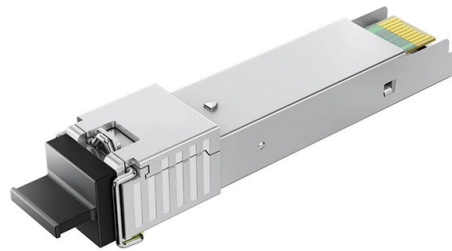


QSFP optical module price and OSFP manufacturer



AI Overview

QSFP-DD modules are generally less expensive than OSFP modules due to smaller size and lower thermal requirements, but both 400G and 800G modules can range from several hundred to several thousand dollars depending on type and vendor. Factors Affecting Cost

Form Factor and Power Handling QSFP-DD (Quad Small Form-factor Pluggable Double Density) modules maintain the same width as QSFP28 but double the electrical lanes to 8, supporting 400G and 800G speeds. They are backward-compatible with QSFP28, which can reduce overall deployment costs by allowing reuse of existing 100G optics. OSFP (Octal Small Form-factor Pluggable) modules are larger, with integrated heatsinks to handle higher power (up to 25W), making them suitable for AI workloads and high-performance computing. The larger size and thermal design generally make OSFP modules more expensive than QSFP-DD.

Data Rate and Technology 400G modules (QSFP-DD or OSFP) are typically less expensive than 800G modules, especially coherent optics for long-distance links. Coherent optics (e.g., 800G ZR/ZR+ for DWDM networks) are significantly more costly due to advanced CMOS and signal processing technology, with prices often in the \$3,000–\$6,000 range per module for enterprise or service provider applications.

Vendor and Supply Chain Prices vary by manufacturer (Cisco, FS, QSFPTEK, etc.) and by region. Bulk purchases or warehouse availability can reduce per-unit cost. Modules from major vendors with guaranteed interoperability and warranty tend to be more expensive than third-party or generic modules.

Backward Compatibility and TCO QSFP-DD modules allow reuse of existing QSFP28 optics, potentially lowering total cost of ownership. OSFP modules, while higher in upfront cost, provide better thermal headroom and future-proofing for high-power applications.

Typical Price Ranges (In...

Article Content

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules, provides an objective comparison between OEM and third-party products,

AI Optical Transceiver Market: \$15.44B by 2025, 11.1% CAGR

AI Optical Transceiver Market: \$15.44B by 2025, 11.1% CAGR AI Optical Transceiver by Application (Large Model Training, Data Center, Others), by Types (OSFP, QSFP, Others), by North

Optical Module Technology Roadmap | 800G to 3.2T Evolution

Explore the future of optical module technology from 800G to 1.6T, 3.2T and beyond. Comprehensive roadmap covering silicon photonics, CPO, coherent datacom, and AI-optimized

Transceiver Types: SFP, SFP+, QSFP, XFP & More Explained

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200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center interconnect applications - FiberMall

800G to 1.6T Optical Interconnects: AI Cluster Maturity Assessment

Optical Module Ecosystem: Vendor Landscape and Technology Readiness The optical transceiver industry consolidates as 1.6T drives advanced capability investment. Leading vendors

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

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Lightrend

200G QSFP-DD optical transceivers is available at Lightrend. The series of products comply with IEEE 802.3bs and QSFP-DD MSA standards and are mainly applied in 200G Ethernet, Data Center and

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Duplex LC Mellanox Optical Transceiver MFM1T02A-SR MMF IEEE 802.3ae 32 QSFP-DD Open Source Mellanox Ethernet Switches 400GbE 1U MSN4700-WS2F MCX4121A-XCHT 3050m

How to Source 800G/1.6T Optical Transceivers for AI Infrastructure

Learn how to select, compare, and source verified 400G–1.6T optical transceivers—OSFP/QSFP-DD modules, silicon photonics tech, LTAs, and top manufacturers for AI data centers.

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

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Optical Transceivers | Network Solutions for AI Cluster,

Learn the differences between 200G DAC and 200G AOC cables, including QSFP56 and QSFP-DD form factors, transmission distance, power consumption,

Pluggables, Power, and Geopolitics: Mapping the 800G and 1.6T Optical ...

Pluggables, Power, and Geopolitics: Mapping the 800G and 1.6T Optical Transceiver Battle How AI Demand Is Reshaping Market Share, Supply Chains, and Valuations.

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for

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Optical Modules Market Research Report 2034

The optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034, growing at a CAGR of 11.5%.

Data Center Optical Transceiver Market Size, Share, Trends

QSFP-DD and OSFP form factors are displacing older QSFP28 modules as the industry standard for 400G and above deployments. Co-Packaged Optics (CPO) represents the most disruptive near-term

Hot-Pluggable Optical Transceiver Market: 10.84% CAGR & 2033

March 2024: Leading optical transceiver manufacturers, including Coherent and Eoptolink, showcased advanced 800G OSFP Transceiver Market and QSFP-DD modules, signaling a

Commercial Optical Transceiver Market Trends & Forecast 2034

Weighted Average Selling Price (ASP) of optical transceivers by type (QSFP, OSFP, Others) and speed grade. Data Triangulation: Outputs from both top-down and bottom-up analyses

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Low Price OEM Fiber Optic Transceiver, 400G 200G OSFP / QSFP

The MSA team said that at a 400Gbps transfer rate, the QSFP-DD package enables a single switch slot with a combined bandwidth of 14.4Tbps to meet fast-growing data center traffic growth.

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing and data center applications.

What Is the Lifespan of an Optical Transceiver?

Learn the typical lifespan of optical transceiver modules like SFP+, QSFP+, QSFP28, QSFP-DD, OSFP. Discover factors that affect durability, signs of failure.

AAOI Optical Transceiver 800G: High-Speed Data Solutions

Price Analysis of AAOI optical transceiver 800G Band Distribution The price range for optical transceivers is extremely wide, from as low as \$2 to \$1,650, reflecting the vast differences in data

Contact Us

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